

## JUDITH BOATENG

Assistant Professor

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### EDUCATION:

- Alabama A&M University, Normal AL (2004-2007)
  - Doctor of Philosophy in Food science
- Alabama A&M University, Normal AL (2000-2003)
  - Master of Science in Food Science

### RESEARCH EXPERIENCE:

- Assistant professor, Department of Food and Animal Sciences, Alabama A&M University Normal AL , January 2011-date

#### Current Independent Research Projects

1. In vivo and in vitro toxicities, biological activities and antimicrobial activities in herbal medicines and spice extracts
2. Cytotoxicity and cytoprotective properties of phytochemicals/ bioactive compounds using *in vitro* and *in vivo* models.
3. In vitro toxicity of bioactive nanoparticles loaded with herbal extracts
4. Toxicological evaluation of herbal extracts (*Hemerocallis, spp*) and supplements (Raspberry Ketones): a combine Toxicogenomics and physico-chemical approach
5. Effect of *in vitro* simulated digestion on the bioactivity of herbal medicinal products and supplements.

#### Collaborative Research Projects

1. Evaluation of prebiotics from legumes (*Phaseolus vulgaris L.*) with anti-inflammatory and microbial properties collaborator(s): Dr. M. Verghese (2013-2015)
  2. Bioactivity of green synthesized silver nanoparticles using *herbal* plant extracts- collaborator(s): Dr. Tanja Kukhtareva-2014
  3. In vitro toxicity and safety of microbial derived lipids- collaborator(s): Dr. Stylianos Fakas
- Post-Doctoral Research Associate, Department of Food and Animal Sciences, Alabama A&M University Normal AL , June 2007-December 2010

#### Co-supervised research projects

- Processing effects on bioactive health components in fruits and vegetables and their impact on quality enhancement and bioavailability.
  - Effects of selected whole foods on chemically induced colon cancer in *in vivo* models
  - Antioxidant and phytochemical contents of total fruit extracts and their effect on chemically induced oxidative stress in human fibroblasts and neuronal cell
  - Lab supervisor and provide support for graduate students on research projects.
- Graduate Research Associate, Department of Food and Animal Sciences, Alabama A&M University Normal AL , June 2004-May 2007
  - Effects of Phytochemicals in Fruits on the Incidence of Azoxymethane (AOM) Induced Aberrant Crypt Foci (ACF) In Fisher 344 Male Rats
  - Phytochemicals in red palm oil reduced the incidence of Azoxymethane (AOM) induced colon tumors in Fisher 344 male rats,

- Effect of processing on the antioxidant levels in selected legumes (*Phaseolus vulgaris* L.)
- Screening of a peanut (*Arachis hypogaea* L.) cDNA library to isolate a Bowman-Birk trypsin inhibitor clone.
- Isolation and sequencing of peanut allergens Arah 6 and 7 genomic DNA.
- Expression of peanut bowman-Birk Trypsin Inhibitor protein.
- Plant tissue culture of allergen free peanut seedlings

#### TEACHING EXPERIENCE:

- Department of Food and Animal Sciences, Alabama A&M University, Normal, AL, January 2011 – January 2013- *Assistant Professor*
  - **FAS 408/508: Food Analysis (undergraduate and graduate level course)- Spring 2011-2014**
    - Taught up to 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **FAS 741 – Advanced Nutrition (graduate level course) – Spring 2013**
    - Taught 50% of class
    - Prepared instructional materials including PowerPoint presentations and handouts for the class
  - **FAS 798 – Advanced Topics in Food Science (graduate level course) – Spring 2014**
    - Taught 50% of class
    - Prepared instructional materials including PowerPoint presentations and handouts for the class
  - **FAS 646: Minerals and Vitamins (graduate level course) - fall 2012 -2013**
    - Taught 33% of class
    - Prepared instructional materials including PowerPoint presentations and handouts for the class
  - **FAS 644: Proteins in Foods and Nutrition (graduate level course) - fall 2013**
    - Independently taught 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **FAS 611: Food Toxicology (graduate level course) - fall 2011-2013**
    - Independently taught 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **FAS 646: Carbohydrate and Lipids in Food Science (graduate level course)- Spring 2012**
    - Independently taught up to 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **ORI 101: Freshman orientation – Fall 2011**
    - Independently taught up to 100% of the course
    - Prepared instructional materials and handouts for the course; administered and graded exams and assignments
  - **FAS 101: Food and Survival of Man (undergraduate level course) – Spring 2011, 2014**
    - Independently taught up to 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **Co- Advisor: Departmental bimonthly lecture series for graduate students**
    - Provided mentorship on how to effectively and critically review research articles, research papers related to subject area, scientifically comprehend and write articles.
  - **Advisor: Student Orientation And Registration (S.O.A.R) (2011-2014)**

- Provided advisement to incoming undergraduate students
- 2010- *Post Doctoral Research Associate*
  - **FAS 101: Food and Survival of Man (undergraduate level course) – fall 2009 - 2010**
    - Independently taught up to 100% of the course
    - Prepared instructional materials including PowerPoint presentations and handouts for the course; administered and graded exams and assignments
  - **FAS 796: Advanced Topics in Food science and Nutrition (graduate level course) – spring 2008, 2009, 2010- guest lecturer**
    - Prepared instructional materials including PowerPoint presentations and handouts for the class
  - **FAS 642: Minerals and Vitamins (graduate level course), fall 2007 -2010- guest lecturer**
    - Prepared instructional materials including PowerPoint presentations and handouts for the class
- *Graduate Teaching Assistant-, 2004 to 2007*
  - **FAS 101: Food and Survival of Man (fall 2005-spring 2007)**
    - Assisted in teaching class and graded assignments
  - **FAS 762: Advanced toxicology (graduate level course) fall 2006**
    - Assisted in teaching class
  - **FAS 642: Minerals and Vitamins (graduate level course), fall 2006**
    - Prepared materials (handouts) for class and assisted in teaching class

## **SUPERVISORY AND MANAGEMENT EXPERIENCE**

- Department of Food and Animal Sciences, Alabama A&M University, Normal, AL, June 2007 – present
- 1. Number of undergraduate students directly mentored or trained through experiential learning activities during the past 5 years: **12.**
- 2. Number of graduate students trained during the past 5 years as major advisor and co-advisor: **15 (10 M.S. and 3 Ph.D.,)**
- 3. Coordinator –(2011-2013) Summer USDA Enhancement in Minority Participation in Functional food product development in Food Science Programs (Undergraduates)
- 4. Co- supervisor and mentor (2010-2013) - USDA Summer High School Research Program. Mentored and developed experiments for USDA summer research scholars
- 5. Co-supervised twelve graduate students on all aspects of their study, including experimental design, data collection, data analysis, and writing manuscripts/proposal/thesis. 2007-2011
- 6. Co- supervised undergraduate work study students and assisted with their projects
- 7. Supervised day-to-day function of nutritional biochemistry and toxicology laboratory (2007-2012) and undergraduate capstone projects.

## **SYNERGISTIC ACTIVITIES**

1. Committee member: served as thesis and dissertations committee member to 14 graduate students (4 PhD and 10 M.S. students- 2011-2016). Currently serving as thesis and dissertations committee member to 13 graduate students (7 PhD and 6 M.S. students)
2. Innovation in teaching and training: Development of two nutrigenomics courses (2015); Introduction to Nutrigenomics (FAS 487), and Applied Nutrigenomics (FAS 678) and Scientific Writing (FAS 231).

## **PROPOSAL/ GRANT WRITING**

1. **Boateng, J.;** Davis, A.; Dalrymple, L.; Verghese, M.; Integrative Graduate Education and Research Traineeships in Food Science. (2018) (Higher Education Challenge (HEC)/ USDA/NIFA \$299,000- Pending)

2. **Boateng, J.**; Sripathi, V.; Davis, A.; Kassama L.; Verghese, M.; Integrative Graduate Education and Research Traineeships in Food Science. (2017) (National Needs Fellowship Grant (NNF)/ USDA/NIFA \$ 243, 500.00- Pending)
3. **Boateng, J.**; Sripathi, V.; Verghese, M.; Developing A Sustainable Research Program In FoodOmics at Alabama A&M University. (2017) (USDA/NIFA \$299,987 -Funded) Role: PI
4. Abdelrahim, G.E., Davis, A; **Boateng, J.**; The Animal Feed Management For Enhanced Food Safety: Use Of Polyphenols-Rich Feedstuffs For Reducing Pathogenic Salmonella In Dairy Operations. (2018). (USDA/NIFA \$235,202 -Pending) Role: Co-PI
5. Coggins, P,C.; **Boateng, J.**; Kassama, L.; Cebert, E.; Sensory Evaluation And Value-Added Applications Of Edible Daylilies (*Hemerocallis*, Spp) (2014-2017). (USDA/NIFA-CBG \$300,000-Funded).
6. Herring, J. L.; Verghese, M.; **Boateng, J.**; Vizcarra, JO.; Kassama, LA.; Walker, LL.; Sunkara, RA. Enhancing Underrepresented Food Science Post-secondary Students (2014-2017). (USDA/NIFA \$134,000-Funded).
7. Fakas, S.; **Boateng, J.**; Microbial Lipid Production And Biochemical Studies On The Lipid Biosynthetic Pathway (2014-2017). (USDA/NIFA-CBG \$300,000- funded)
8. Fakas, S; **Boateng, J.**, Building Capacity In Food Biotechnology At Alabama A&M University By Establishing A New Research Program In Microbial Lipid Biotechnology (2015-2018). (USDA/NIFA - \$300,000- funded)
9. Sharma, A; Davis, A; Ruffin, P.B.; **Boateng, J.**; Standoff Raman Detection of Food Contamination (20134-2016). (NSF- \$ 98, 409-Funded)
10. Abdelrahim, G.E., Correa, J.; **Boateng, J.**; Training of Indonesia Beef Feed lot and Dairy Nutritionists in the United States (3013). (USDA Cochran Fellowship Program - \$ 16, 000-Funded)
11. **Boateng, J.**; Verghese, M; Konan, K; Sharma, G. Training Of Minority Students in the Field of Nutrigenomics and Functional Foods (2013-2017). (USDA-CBG)-Funded-\$149,000
12. L. Kassama, **J. Boateng**, M. Verghese. Undergraduate Research to Retain and Graduate Students in STEAM. Thurgood Marshall College (2012-2013). Fund -\$10,000- (funded)
13. **Boateng, J.**; Verghese, M; Walker; Banerjee, P; Sunkara, R. The effects of bioaccessible dietary polyphenols and their metabolites on biomarkers of chronic inflammatory diseases to promote overall health. (USDA/AFRI) – Not-funded
14. Verghese, M; **Boateng, J.**; Kassama, L. Building Capacity along the Soybean value Chain: Research for High-Yielding, Climate-resilient Soybean in Ghana and Malawi. (USAID) – Not funded -Co-PI
15. **J. Boateng** and M. Verghese, Training of Minority Students in Food/Nutritional Toxicology and Safety submitted capacity (USDA capacity building grant (2012-2015) not funded- PI.
16. **J. Boateng**, M. Verghese and L.T. Walker. Toxicological risk and safety assessment for herbal medicinal products and approaches to isolate and characterize their active components and metabolites. Funded- \$150, 000 (Evans Allen 2011-2013)- PI
17. M. Verghese, **J. Boateng** and L. Walker. The potential to reduce the incidence of adolescent obesity via an interdisciplinary intervention including nutritional biochemistry/ Nutrigenomics, Food product development and community nutrition \$150, 000 (Evans Allen 2012-2015) Co-PI.
18. J. Herring, M. Verghese, **J. Boateng**, JA Vizcarra, G Abdelrahim and K. Konan. Building Abilities Of Students, Faculty And Alabama A&M University Through Workshops In Food And Animal Science)-\$ 148,518 (USDA Capacity Building- 2012-2015) Co-PI
19. M. Verghese, **J. Boateng**, L.T. Walker, J. Herring. Increasing training of minority graduate students in food science by participation in Functional Food product development to meet the challenges of increased demand of health and wellness by the US population. (USDA capacity building grant (2010-2013) Co-PI
20. M. Verghese, L.T. Walker, J Herring and **J. Boateng**. Advancing food science in pre-and post secondary education. \$199,628 (USDA capacity building grant (2009-2012) Co-PI

#### AWARDS, HONORS AND RECOGNITIONS:

- Third place: Mark A. Bieber competition, Nutrition Division, Institute of Food Technologists (IFT)-2008
- School of Agricultural and Environmental sciences Outstanding Research Associate-2008
- School of Agricultural and Environmental sciences Outstanding Graduate Student -2007
- First place: Mark A. Bieber competition, Nutrition Division, Institute of Food Technologists (IFT)-2007
- First place: National Graduate Paper Competition, Nutrition Division, Institute of food Technologists (IFT) 2006

- Third place: National Graduate Paper Competition, Nutrition Division, Institute of food Technologists (IFT) 2005
- First place: National Association of Research Director's Symposium paper competition, Food Safety, Nutrition, and Health Undergraduate Student Awards, 2006
- Certificate of recognition (for supporting and mentoring High school summer interns during 2004-2005)
- Certificate of recognition (for mentoring USDA summer scholars during 2009-2012, 2014-2015)
- Certificate of recognition (for supporting School of agricultural annual program by serving as student representative and facilitator for graduate student research presentations during 2005-2007)
- Certificate of recognition (for supporting and participating STEM committee and by serving on abstract reviewing committee during 2008-2011, 2015, 2016),
- Certificate of appreciation (for supporting and participation in Department of Justice/Department of Agriculture Joint Public Workshop on Competition Issues in the Agriculture Industry – Poultry Issues), Alabama A&M University, May 21, 2010

#### PROFESSIONAL AFFILIATION, ORGANIZATION AND CERTIFICATIONS:

- American Society for Nutrition (ASN) member (2005-present)
- Institute of Food technologists (IFT) member (2007-present)
- American Chemical Society (ACS) member (2009-present)
- American College of Nutrition (ACN)-Fellow 2010-present
- Collaborative Institutional Training Initiative (CITI PROGRAM)
- Phi Tau Sigma (Honorary Society for Food Scientist)

#### PRESENTATIONS AND PUBLICATIONS

##### Publications

1. Carlton Farley, Aschalew Kassu, Nayana Bose, Armitra Jackson-Davis, **Judith Boateng**, Peter Ruffin, Anup Sharma (2016). Stand-Off Raman Detection of Extra Virgin Olive Oil Adulterated with Canola Oil and Grapeseed Oil *Appl Spectrosc.* 2016 Dec 12. pii: 0003702816681796.
2. M. Yang, R. Hardin, S. Ogutu, M. Verghese and **J. Boateng** (2016). *In vitro* digestion and bioactivity assessment of basil and ginger in human liver cells: A Preliminary Study- *Journal of Biological Sciences*, 16: 202-214.
3. **J. Boateng**, R. Miller-Cebert, L. Shackelford and M. Verghese. Modifying Effects of Pistachio nuts on Antioxidant Enzymes in Azoxymethane (AOM)-Induced Formation of Aberrant Crypt Foci (2016). *International Journal of Cancer Research*, 12: 140-151.
4. S. Willis, **J. Boateng**, K. Busambwa, L. Shackelford and M. Verghese (2016). Bitter melon and Blueberry leaf teas on endogenous antioxidant enzymes. - *Journal of Pharmacology and Toxicology*, 11: 1-10.
5. Miller-Cebert RL, **J. Boateng**, E. Cebert, L. Shackelford and M. Verghese (2016). Chemopreventive Potential of Canola Leafy Greens and other Cruciferous Vegetables on Azoxymethane (AOM)-Induced Colon Cancer in Fisher 344 Male Rats. *Food and Nutrition Sciences*, 7, 964-976. <http://dx.doi.org/10.4236/fns.2016.711095>
6. K. Busambwa, R. Sunkara, N. Diby, R. Offei- Okyne, **J. Boateng** and M. Verghese (2015). Cytotoxic and Apoptotic Effects of Sprouted and Non-sprouted Lentil, Green and Yellow Split-peas. *International Journal of Cancer Research* Volume 12, Number 1, 51-60, 2016 DOI: [10.3923/ijcr.2016.51.60](https://doi.org/10.3923/ijcr.2016.51.60)
7. R. Offei- Oknye, J.L. Patterson, L.T. Walker, **J. Boateng** and M. Verghese (2015). Chemopreventive Potential of Ginger on Hep2G Cells. *International Journal of Cancer Research* Volume 11, Number 2, 52-66, 2015 DOI: [10.3923/ijcr.2015.52.66](https://doi.org/10.3923/ijcr.2015.52.66)
8. Jennifer L. Allen, Martha Verghese, Louis Shackelford, **Judith Boateng** and Lloyd T. Walker (2015). Chemopreventive Potential of Soy Flour, Flaxseed Meal and a Probiotic in a Rat Model. *International Journal of Cancer Research* Volume 11, Number 2, 67-79, 2015 DOI: [10.3923/ijcr.2015.67.79](https://doi.org/10.3923/ijcr.2015.67.79)

9. K. Busambwa, R.L. Miller-Cebert, L. Aboagye, L. Dalrymple, **J. Boateng**, L. Shackelford, L.T. Walker and M. Verghese (2015). Inhibitory Effect of Lentils, Green Split and Yellow Peas (Sprouted and Non-sprouted) on Azoxymethane-induced Aberrant Crypt Foci in Fisher 344 Male Rats. *Journal of Pharmacology and Toxicology*, 10: 36-48.
10. K. Busambwa, R.L. Miller-Cebert, L. Aboagye, L. Dalrymple, **J. Boateng**, L. Shackelford, L.T. Walker and M. Verghese. Inhibitory Effect of Lentils, Green Split and Yellow Peas (Sprouted and Non-sprouted) on Azoxymethane-induced Aberrant Crypt Foci in Fisher 344 Male Rats. *International Journal of Cancer Research-2013*
11. **J. Boateng** and M. Verghese, 2012. Protective Effects of the Phenolic Extracts of Fruits against Oxidative Stress in Human Lung Cells. *International Journal of Pharmacology*, 8: 152-160.
12. J. Patterson, **J. Boateng**, L.T. Walker and M. Verghese. Cytotoxic Effects of Multiple N-nitrosamines in Human Liver Cell Line Hep2G: Possible Mechanisms of Action. Article in press *Journal of Pharmacology and Toxicology*
13. R.L. Miller-Cebert, **J. Boateng**, L. Shackelford, E. Cebert, L.T. Walker and M. Verghese Selected Cruciferous Vegetables and their Effects on Azoxymethane (AOM) Induced Aberrant Crypt Foci. *International Journal of Cancer Research Volume 8, Number 3, 95-104, 2012*
14. B. Kanda, **J. Boateng**, L. Shackelford, S. Appiah, K. Campbell L. T. Walker and M. Verghese, 2012. Effects of Processed Peaches (*Prunus persica*) in Reducing Azoxymethane (AOM) Induced Aberrant Crypt Foci (ACF) in Fisher 344 Male Rats. *International Journal of Cancer Research*, 8: 1-14.
15. S. Appiah, M. Verghese, **J. Boateng**, L.A. Shackelford, B. Kanda, J. Patterson and L.T. Walker, 2012. Determination of Processing Effects on Phytochemical Content, Antioxidants Activity and Chemopreventive Potential of Beets (*Beta vulgaris*) using a Colon Cancer Fisher 344 Male Rat Model. *International Journal of Cancer Research*, 8: 105-118.
16. Gourineni VP, Verghese M, **Boateng J**, Shackelford L, Bhat NK, Walker LT. Combinational Effects of Prebiotics and Soybean against Azoxymethane-Induced Colon Cancer In Vivo. *J Nutr Metab.* 2011; 2011:868197.
17. Gourineni VP, Verghese M, **Boateng J**, Shackelford L, Bhat KN. Chemopreventive potential of synergy1 and soybean in reducing azoxymethane-induced aberrant crypt foci in fisher 344 male rats. *J Nutr Metab.* 2011; 2011:983038.
18. V.P. Gourineni, M. Verghese and **J. Boateng**. Anticancer Effects of Prebiotics Synergy1<sup>®</sup> and Soybean Extracts: Possible Synergistic Mechanisms in Caco-2 Cells. *International Journal of Cancer Research*, 2010 6 (4): 220-233
19. D. Asiamah, M. Verghese, **J. Boateng**, B. Kanda, L. Shackelford and L.T. Walker, 2011. Chemopreventive Potential of Bitter Melon (*Momordica charantia*) against Precancerous Lesions in the Colon of Fisher 344 Male Rats. *International Journal of Cancer Research*, 7: 36-46.
20. A.A. Miller, M. Verghese, **J. Boateng**, L. Shackelford and L.T. Walker. Feeding Almonds and Pecans Reduced Development of Azoxymethane Induced Precancerous Lesions. *International Journal of Cancer Research*. 2010 (6) 4: 234-242
21. **J. Boateng**, M. Verghese, V. Panala and L. Shackelford. Protective effects of Rice bran on chemically induced colon tumorigenesis may be due to synergistic /additive properties of bioactive components. *International Journal of Cancer Research* 5 (4): 153-166, 2009
22. D. Gajula, M. Verghese, **J. Boateng**, L.T. Walker, L. Shackelford, S.R. Mentreddy and S. Cedric Determination of Total Phenolics, Flavonoids and Antioxidant and Chemopreventive Potential of Basil (*Ocimum basilicum* L. and *Ocimum tenuiflorum* L.) *International Journal of Cancer Research* 5 (4): 130-143, 2009
23. V. Panala, M. Verghese, **J. Boateng**, R. Field, L. Shackelford and L.T. Walker. A Comparison of Rice Bran, Corn Oil and Soybean Oil against Azoxymethane Induced Colon Cancer in a Fisher 344 Rat Model. *International Journal of Cancer Research* 5 (1): 25-35, 2009
24. **J. Boateng**, M. Verghese, M., L.T. Walker, L. Shackelford, and C.B. Chawan. Antitumor and Cytotoxic Properties of Dry beans (*Phaseolus* spp. L): An invitro and invivo model. *International Journal of Cancer Research* 4 (2): 41-51, 2008

25. **J. Boateng**, M. Verghese, L.T. Walker and S. Ogutu. Effect of processing on antioxidant contents in selected dry beans (*Phaseolus* spp. L). *LWT - Food Science and Technology* 2008
26. R. Field, M. Verghese, **J. Boateng**, L.T. Walker, L. Shackelford, V. Panala and C.B Chawan. Feeding Wheat germ reduced Azoxymethane (AOM) induced Aberrant Crypt Foci (ACF) in Fisher 344 male rats. *International Journal of Cancer Research*, 4 (4): 127-136, 2008.
27. D.S. Williams, Verghese, M., **J. Boateng**, L.T. Walker, L. Shackelford and C.B Chawan. Chemopreventive potential of flax seed products on Azoxymethane-induced colon carcinogenesis in fisher 344 male rats. *International Journal of Cancer Research* 4 (2): 28-40, 2008
28. R. Sunkara, M. Verghese, V. Panala, R. Field, **J. Boateng**, L.A. Shackelford and L.T. Walker. Chemopreventive Potential of Cranberries on Azoxymethane Induced Aberrant Crypt Foci in Fisher 344 Male Rats. *International Journal of Cancer Research* 4 (2): 52-60, 2008
29. R. Sunkara, M. Verghese, J. Khatiwada, L. Schakelford, **J. Boateng**, L.T. Walker and C.B. Chawan. Combinational Effect of Green Tea, Phytic Acid and Inositol on bone Mineralization and Mineral Balance in Azoxymethane-induced Colon Carcinogenesis in Fisher 344 Male Rats. *Journal of Pharmacology and Toxicology* 3(4):279-290, 2008
30. A. Clisby, M. Verghese, E. Cebert, L.T. Walker, R. Field, L. Shackelford, **J. Boateng** and C.B. Chawan. Canola and Mustard Seeds/Sprouts Reduce the Formation of Aberrant Crypt Foci in Azoxymethane-Induced Colon Cancer in Fisher 344 Male Rats. *Journal of Biological Sciences* 8 (2): 410-415, 2008
31. Verghese, M., J.E. Richardson, **J. Boateng**, L. A. Shackelford, C. Howard L. T. Walker and C. B. Chawan. Dietary Lycopene Has a Protective Effect on Cardiovascular Disease in New Zealand Male Rabbits. *Journal of Biological Sciences* 8 (2): 268-277, 2008
32. M. S. C. Fullerton, Verghese, M., L.T. Walker, L.A. Shackelford, E. Cebert, **J. Boateng**, S. Ogutu and C.B. Chawan. Determination of Antioxidant Contents in Red Sorrel and its Anticarcinogenic Potential in Azoxymethane-induced Colonic Aberrant Crypt Foci. *Research Journal of Phytochemistry* 2 (2): 69-76, 2008
33. **J. Boateng**, Martha Verghese, Lloyd T. Walker, Louis A. Shackelford, Chandramohan B. Chawan. Inhibitory effects of selected dry beans (*Phaseolus* spp L) on azoxymethane-induced formation of aberrant crypt foci in Fisher 344 male rats. *Nutrition Research* 27 (2007) 640-646
34. **J. Boateng**, Verghese, M, L.T. Walker, L. Shackelford, J. Khatiwada, C.B. Chawan, D.S. Williams and D. Asiamah, Antitumor and Cytotoxic Properties of Red Kidney Beans (*Phaseolus vulgaris*): An in vitro and in vivo model. *J. Nutr.* January, 2007, Volume 137, No.15
35. J. Boateng , Verghese, M, L.T. Walker , L. Shackelford, D.S. Williams , C.B Chawan, and J. Khatiwada. Effects of Phytochemicals in Fruits on the Incidence of Azoxymethane (AOM) Induced Aberrant Crypt Foci (ACF) In Fisher 344 Male Rats. *Food and Chemical Toxicology*, Volume 44, Issue 10, October 2006, Pages 1667-1673
36. **J. Boateng**, Verghese, M, L.T. Walker, L. Shackelford, J. Khatiwada, C. B. Chawan and S. Ogutu. Red palm oil can effectively suppress the formation of Azoxymethane (AOM) Induced Aberrant Crypt Foci (ACF) formation in Fisher 344 male rats. *Food and Chemical Toxicology*, Volume 44, Issue 10, October 2006, Pages 1667-1673
37. D.S. Williams , Verghese, M, **J. Boateng** , L.T. Walker , L. Shackelford, C.B Chawan, and J. Khatiwada. Flax Seed Oil and Flax Seed Meal Reduce the Formation of Aberrant Crypt Foci (ACF) in Azoxymethane-Induced Colon Cancer in Fisher 344 Male Rats. *Food and Chemical Toxicology*, Volume 45, Issue 1, January 2007, Pages 153-159
38. Adrienne Johnson, Verghese, M, **J. Boateng**, Louis Shackelford, Janak Khatiwada, Chandramonhan B. Chawan, Lloyd T. Walker, Jackquelyn Jones, Marcus Guyton, Maniyah DeBruce, and Darlene Williams. Effect of Wheat Bran on Azoxymethane (AOM) - Induced Aberrant Crypt Foci (ACF) in Fisher 344 Male Rats. *J. Nutr.* 135:3037S-3060S, December 2005
39. **J. Boateng**, Verghese, M, Louis Shackelford, Lloyd T. Walker, Chandramohan B. Chawan, Janak Khatiwada, Marcus Guyton, Jacquelyn Jones, Simon Ogutu, and Darlene Williams. Inhibitory Effects of Selected Berries and Fruit Juices on the Occurrence of Azoxymethane-

- Induced Aberrant Crypt Foci in Fisher 344 Male Rats. *J. Nutr.* 135:3037S-3060S, December 2005
40. **J. Boateng**, Viquez OM, Konan KN, Dodo HW. Screening of a peanut (*Arachis hypogaea* L.) cDNA library to isolate a Bowman-Birk trypsin inhibitor clone. *J Agric Food Chem.* 2005 Mar 23;53(6):2028-31.

#### BOOK CHAPTERS

1. Lycopene and colon carcinogenesis. Verghese, M, **J. Boateng**, L. Shackelford and L.T. Walker. Lycopene: Nutritional, Medicinal and therapeutic properties. Editors: Victor R. Preedy (Kings College London), and Ronald Ross Watson (University of Arizona, USA) Science Publishers 2007.
2. Flaxseed fatty acids and their roles within the body. Verghese, M and **J. Boateng**. Seeds in Health and Disease. Editors: Victor R. Preedy (Kings College London), Ronald Ross Watson (University of Arizona, USA) and Vinood Patel (Kings College London). Academic Press, 2010.
3. Nutrigenomics: Martha Verghese and **Judith Boateng** in OMICS: Biomedical Perspectives and Applications. Editor(s): Debmalya Barh. CRC Press, 2011.

#### ABSTRACTS AND PRESENTATIONS

1. N. Montgomery, **J. Boateng**, M. Verghese. Simulated In Vitro Digestion on the Viability of Probiotic *Lactobacillus Delbrueckii Subsp. Bulgaricus* and *Streptococcus Thermophilus* in a Legume-Based Yogurt. IFT Annual Meeting, Las Vegas, NV, June 25 - 28, 2017
2. J. Johnson and **J. Boateng**. Determination of Antioxidant Activity in Edible Daylily Flower (*Hemerocallis, spp*). IFT Annual Meeting, Las Vegas, NV, June 25 - 28, 2017
3. J. Johnson and **J. Boateng**. An Evaluation of the Bioactivity and Toxicity of Raspberry Ketone Dietary Supplement. IFT Annual Meeting, Las Vegas, NV, June 25 - 28, 2017
4. R. Hardin, A. Gilbert and **J. Boateng**. Screening Of Phytochemical Content, Antioxidant Potential and Bioactivity of Selected Herbal Leaf Teas. IFT Annual Meeting, Las Vegas, NV, June 25 - 28, 2017
5. M. Yang, J. Johnson, R. Hardin, M. Verghese and **J. Boateng**. Effect of Simulated *In Vitro* Digestion on Polyphenolic Contents and Antioxidant Activity in Basil and Ginger. IFT Annual Meeting, July 14 – 17, 2016, Chicago, IL
6. **J. Boateng**, A. Kelly, M. Verghese. In Vitro Toxicity and Modulation of Endogenous Antioxidant Defense Enzyme Activity by Bitter Melon Extracts in Hep G2 Cells IFT Annual Meeting, July 11 – 14, 2015, Chicago, IL
7. M. N. Montgomery, **J. Boateng**, LT Walker, M. Verghese. Storage Effects on Fermentation Activity, Quality Attributes, and Antioxidant Activity of a Legume-Based Yogurt Product. IFT Annual Meeting, June 21 – 24, 2014, New Orleans, LA
8. R. Offei-Oknye, J.L Patterson, L.T Walker, **J. Boateng**, S. Ogutu, L.Shackelford, M.Verghese. Ginger Induces Apoptosis in Human Liver Carcinoma Cell Line Hep2G. IFT Annual Meeting, June 21 – 24, 2014, New Orleans, LA
9. K. Busambwa, L. Shackelford, **J. Boateng**, S. Ogutu, R. Hardin, E. Tigner, L. T. Walker, M. Verghese. Development of a Functional Food Using Spouted Lentil Flour. IFT Annual Meeting, June 21 – 24, 2014, New Orleans, LA
10. S.R. Willis, **J. Boateng**, L. Shackelford, L. T. Walker, K. Busambwa, M. Verghese. Effects of Sub-Acute Consumption of Herbal Teas on Bone Mineralization. IFT Annual Meeting, June 21 – 24, 2014, New Orleans, LA
11. S. R. Willis, **J. Boateng**, M. Verghese, L. Shackelford, K. Busambwa, L. Walker. Subacute Toxicity Study of Herbal Tea Supplementation and Effects on Toxicological Biomarkers: Oxidative Stress and Drug Metabolizing Enzymes. IFT Annual Meeting, July 13 – 16, 2013, Chicago Illinois
12. S. R. Willis, **J. Boateng**, M. Verghese, L. Walker. Antioxidant Potential of Gunpowder Green, Blueberry Leaf, and Bitter Melon Teas. IFT Annual Meeting, July 13 – 16, 2013, Chicago Illinois
13. Janika N Hull, Martha Verghese, Louis Shackelford, **Judith Boateng**, Jelisa Thomas, Rhona L Miller-Cebert, Lisa Dalrymple, Jennifer Allen, Kasang Busambwa, Lloyd Walker,



- Chemopreventive Potential of Blue Corn in Azoxymethane-Induced Colon Tumors in Fisher 344 Male Rats. IFT Annual Meeting, July 13 – 16, 2013, Chicago Illinois
14. Lisa Dalrymple, Martha Verghese, **Judith Boateng**, Lloyd Walker, Rhona L Miller-Cebert, Louis Shackelford. Chemopreventive Effects of Cocoa and Coffee in Fisher 344 Male Rats. IFT Annual Meeting, July 13 – 16, 2013, Chicago Illinois
  15. Lisa Dalrymple, **Judith Boateng**, Kasang Busambwa, Louis Shackelford, Lloyd Walker, Martha Verghese. Toxicological Effects of Cocoa and Coffee Extracts in Human Colon Cell Lines. IFT Annual Meeting, July 13 – 16, 2013, Chicago Illinois
  16. Kristen Campbell, Martha Verghese, Judith Boateng, Louis A. Shackelford, Janika Hull, Jelisa Thomas, Belinda Kanda, Lloyd T. Walker. Consumption of dietary fiber in a high-saturated fat-based diet may have implications in reducing preneoplastic lesions. 2011 IFT Annual Meeting, June 11 - 14, New Orleans LA
  17. Latonya Dukes, Martha Verghese, **Judith Boateng**, Lloyd T. Walker. Chemopreventive effects of selected herbs and spices in a colon cancer cell model. 2011 IFT Annual Meeting, June 11 - 14, New Orleans LA
  18. Henock Tegete , Martha Verghese, **Judith Boateng**, Louis A. Shackelford, Belinda Kanda, David K. Asiamah, Lloyd T. Walker, Nedra Montgomery. Changes in selected phytochemicals after thermal and non-thermal processing of mangos. 2011 IFT Annual Meeting, June 11 - 14, New Orleans LA
  19. Stephen Appiah, Martha Verghese, **Judith Boateng**, Louis A. Shackelford, Belinda Kanda, Lloyd T. Walker Impact of selected processing methods on phytochemical content, antioxidant activity, and chemopreventive potential of beets ( *Beta vulgaris* ). Annual Meeting, June 11 - 14, New Orleans LA
  20. Marilyn Hawkins, Martha Verghese, **Judith Boateng**, Belinda Kanda. Effects on physicochemical properties of grape juice using thermal and pulsed electric field pasteurization. Annual Meeting, June 11 - 14, New Orleans LA
  21. Belinda Kanda, Martha Verghese, **Judith Boateng**, Louis A. Shackelford, Stephen Appiah. Processing effects on phytochemical content and bioavailability of carrots using a rat model. Annual Meeting, June 11 - 14, New Orleans LA
  22. **J. Boateng** and M. Verghese. Corn pericarp extracts inhibit cell proliferation and promote apoptosis in colon cancer cells. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  23. **J. Boateng** and M. Verghese Processing effects on Phenolics in Selected Fruits. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  24. L. Dukes, M. Verghese, **J. Boateng**, A. Miller, L. Shackelford, L. T. Walker, R. Field, D. Asiamah. Selected herbs and spices reduce azoxymethane (AOM)-induced colon tumors in Fisher 344 male rats. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  25. V. Gourineni, M. Verghese, **J. Boateng**, L. Dukes, L. Shackelford, L. T. Walker. Prebiotic Synergy1<sup>®</sup> and soybean extracts: Possible synergistic chemopreventive mechanisms. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  26. **J. Boateng** and M. Verghese. Antioxidant activity, induction of apoptosis and inhibition of cell proliferation by peanut and almond extracts in human colon cancer cells. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  27. R. Field, M. Verghese, **J. Boateng** and L.T. Walker. Processed Dry Beans Reduced Azoxymethane-Induced Colon Tumors in Fisher 344 Male Rats. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  28. S. Appiah, M. Verghese, **J. Boateng**, B. Kanda and L.T. Walker. Effect of Processing on Chemopreventive Potential of Grapes and Beets in Azoxymethane-Induced Fisher 344 Male Rats. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
  29. L. Disney, M. Verghese, **J. Boateng**, P. Wambura and L.T. Walker. The Impact of Different Processing Methods on The phytochemical Content and Antioxidant Potential of Capsicum Annuum. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.

30. K. Campbell, M. Verghese and **J. Boateng**. Comparison of Colon Cancer Risk in African Americans and Caucasians in North Alabama. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
31. R. Miller- Cebert, M. Verghese and **J. Boateng**. Antioxidant activity and metal content in selected cruciferous vegetables. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
32. D. Asiamah, M. Verghese, **J. Boateng** and L.T. Walker. Chemopreventive Effects of Bitter Melon against Colon Tumorigenesis. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
33. R. Sunkara, M. Verghese, **J. Boateng**, L. Shackelford, L. T. Walker, S. Ogutu. Phytochemical profile, antioxidant and cytotoxic potential of fresh and dried cranberries. . Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
34. V. Gourineni, M. Verghese, **J. Boateng**, L. Shackelford, L. T Walker. Cytotoxic and apoptotic effects of isoflavones and short-chain fatty acids. . Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
35. L. Shackelford, M. Verghese, D. Asiamah, **J. Boateng**, S. Ogutu, L. T. Walker. Chemopreventive potential of coffee and cocoa against azoxymethane-induced aberrant crypt foci in a rat model. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
36. Kanda, B, Verghese, **J. Boateng**, S. Appiah, L. Shackelford and L. T. Walker. Effects of Processed Peaches (*Prunus persica*) in reducing Azoxymethane induced aberrant crypt foci in Fisher 344 Male Rats. Presented at the IFT Annual meeting, Chicago, July 17- July 20, 2010.
37. **J. Boateng** and M. Verghese. Whole fruit extracts protect against oxidative stress induced by hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) in human liver and lung fibroblast cells. Presented at the IFT Annual meeting, Anaheim, June 8- June 12, 2009.
38. **J. Boateng** and M. Verghese. Protection of human muscle and connective tissue fibroblast (Hs 792(C).M) against tert-butyl hydroperoxide (tBHP) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) induced oxidative stress by selected fruit extracts. Presented at the IFT Annual meeting, Anaheim, June 8- June 12, 2009.
39. **J. Boateng** and M. Verghese. Cytoprotective effects of total fruits extracts to cortical neuron (HCN-2) against tert-butyl hydroperoxide (tBHP) and hydrogen peroxide H<sub>2</sub>O<sub>2</sub> induced oxidative stress and apoptosis. Presented at the IFT Annual meeting, Anaheim, June 8- June 12, 2009.
40. A. Clisby, M. Verghese, **J. Boateng**, E. Cebert and L.T. Walker. Canola/mustard extracts and isothiocyanates exert cytotoxic effects on Caco-2 Cells: Apoptosis as a possible mechanism of action. Presented at the IFT Annual meeting, Anaheim, June 8- June 12, 2009..
41. R. Sunkara, M. Verghese, **J. Boateng**, S. Ogutu and L.T. Walker. Anthocyanin rich fruits (Cranberry and Sorrel) caused cytotoxicity and apoptosis in human Colon Cancer Cells. Presented at the IFT Annual meeting, Anaheim, June 8- June 12, 2009.
42. **J. Boateng**, M. Verghese, L.L. Williams, L.T. Walker and S. Ogutu. Selected fruit extracts and phytochemicals protect against oxidative stress induced by tert-butyl hydroxide (TBHP) in human liver fibroblasts (FL62891). Accepted annual IFT Meeting in Chicago, June 28- July 1, 2008.
43. **J. Boateng**, M. Verghese, L.L. Williams, L.T. Walker and S. Ogutu. Protective effects of selected fruits extracts and phytochemicals on human lung fibroblast cells (CCD-25LU) against oxidation stress induced by tert-butyl hydroperoxide (TBHP). Annual IFT Meeting in Chicago, June 28- July 1, 2008.
44. **J. Boateng**, J.K. Kuruvilla, M. Verghese, and L.T. Walker. Cytotoxic effects if selected fruits extracts on human colon cancer cells. Accepted annual IFT Meeting in Chicago, June 28- July 1, 2008.
45. J.N. Kendrick, m. Verghese, **J. Boateng**, L.T. Walker, S. Ogutu and J. Herring. A comparison of phenolics, flavonoids anthocyanins and antioxidant capacity of selected fruits. Annual IFT Meeting in Chicago, June 28- July 1, 2008.

46. D. Gajula, M. Verghese, S.R. Mentreddy, C. Sims, **J. Boateng**, L.T. Walker and L. Shackelford. Chemopreventive potential of Basil (*Ocimum tenuiflorum*. L and *Ocimum basilicum*.L) in colon carcinogenesis. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
47. D. Williams, M. Verghese, **J. Boateng**, L. Shackelford, L.T. Walker and J.K. Kuruvilla. Green leafy vegetables rich in glucosinolates reduced the formation of aberrant crypt foci (ACF) in Azoxymethane –induced Fisher 344 male rats. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
48. D. Williams, M. Verghese, **J. Boateng**, L. Shackelford, L.T. Walker and J.K. Kuruvilla. A comparison of chemopreventive potential of 2 varieties of cabbage (green and red) on azoxymethane induced aberrant crypt foci in Fisher 344 male rats. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
49. V. Gourineni, M. Verghese, **J. Boateng**, L.T. Walker and L. Shackelford. A Study of the Chemopreventive Effects of Prebiotics and Soy isoflavones using a Fisher 344 rat model. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
50. C.Rock, M. Verghese, **J. Boateng**, L.T. Walker, L. Shackelford D. Asiamah and S. Ogutu. Chemopreventive potential of two commonly consumed apple varieties (red delicious and granny smith) and apple juice against the development of azoxymethane –induced aberrant crypt foci. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
51. A. Clisby, M. Verghese, E. Cebert, L. Shackelford, L.T. Walker, R. Field and **J. Boateng**. Dietary canola oil and Azoxymethane –induced colon carcinogenesis in Fisher 344 male rats. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
52. Feeding cranberry and sorrel calyx meal reduces Azoxymethane –induced colon cancer in Fisher 344 male rats. R. Sunkara, M. Verghese, E. Cebert, L. Shackelford, L.T. Walker, V. Panala, R. Field and **J. Boateng**. Annual IFT Meeting in Chicago, June 28- July 1, 2008.
53. **J. Boateng**, M. Verghese, V. Panala, R. Sunkara, L.T. Walker, L. Shackelford, D. Asiamah, W. Yang, D. Williams A. Clisby and C.B. Chawan. Protective effects of Rice bran on chemically induced colon tumorigenesis may be attributed to synergistic /additive properties of its bioactive components. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
54. **Judith Boateng**, Martha Verghese, Reuel Field, Venugopal Panala, Darlene Williams, Louis Shackelford, David Asiamah, Lloyd Walker, and Aretha Clisby Potential of selected dietary oils in azoxymethane induced colon cancer AACR Meeting Abstracts, Dec 2007; 2007: B11.
55. V. Panala, M. Verghese, **J. Boateng**, L.T. Walker, L. Shackelford, R. Field, R. Sunkara, D. Asiamah, D. Williams and C.B. Chawan. Rice bran and rice bran oil suppressed the formation of Azoxymethane (AOM) induced aberrant crypt Foci (ACF) in Fisher 344 rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
56. V. Panala, M. Verghese, **J. Boateng**, L.T. Walker, R. Fields, L.Shackelford, D. Asiamah, L. Grant, R. Sunkara and D.S. Williams and C.B. Chawan. Cornmeal reduces Azoxymethane (AOM)-induced Aberrant Crypt Foci (ACF) in Fisher 344 Male Rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
57. R. Hall, M. Verghese, **J. Boateng**, L. Shackelford, L.T. Walker, D.S. Williams, E. Cebert and C.B. Chawan. Protective effects of Sorrel (*Hibiscus sabdariffa* L.) leaves in chemically induced aberrant crypt foci (ACF) in Fisher 344 male rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
58. D. Asiamah, M. Verghese, **J. Boateng**, L. Shackelford, L. T. Walker, Shymone Moses, D.S. Williams, J. Khatiwada and C.B. Chawan. Comparison of the Inhibitory Effects of two commonly consumed vegetables on Chemically Induced Aberrant Crypt Foci (ACF) in Fisher 344 Male Rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
59. L. Grant, M. Verghese, **J. Boateng**, L. Shackelford, D.S. Williams, L. T. Walker, and C. B. Chawan. Feeding Strawberries reduced Azoxymethane (AOM) induced Aberrant Crypt Foci (ACF) in Fisher 344 male rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
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- Carcinogenesis in Fisher 344 Male rats. Annual IFT Meeting in Chicago, July 29- August 3, 2007.
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